



PCT/0

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RAW SEQUENCE LISTING

PATENT APPLICATION: US/10/070,778

DATE: 03/13/2003

TIME: 15:19:35

Input Set : A:\pto.vsk.TXT

Output Set: N:\CRF4\03132003\J070778.raw

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4 <110> APPLICANT: Merck & Co., Inc.
6 <120> TITLE OF INVENTION: MURF GENE AND ENZYME OF PSEUDOMONAS
7   AERUGINOSA
9 <130> FILE REFERENCE: 20194P
11 <140> CURRENT APPLICATION NUMBER: 10/070,778
C--> 12 <141> CURRENT FILING DATE: 2003-02-11
14 <150> PRIOR APPLICATION NUMBER: PCT/US00/24437
15 <151> PRIOR FILING DATE: 2000-09-06
17 <150> PRIOR APPLICATION NUMBER: 60/153,293
18 <151> PRIOR FILING DATE: 1999-09-10
20 <160> NUMBER OF SEQ ID NOS: 4
22 <170> SOFTWARE: FastSEQ for Windows Version 4.0
24 <210> SEQ ID NO: 1
25 <211> LENGTH: 1449
26 <212> TYPE: DNA
27 <213> ORGANISM: Pseudomonas aeruginosa
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31 ttgagcctct tcgcctcagc cagttgacgg tcgcgctgga cgccgcgctg atcggcgagg      120
32 acgccgtctt ttgcggcggtt tccaccgaca gtcgcgccat cgggcccggc caactgttca      180
33 ttgccctgag tgggcgcggt ttcgacggcc acgactatct cgccgagggt gccgccaagg      240
34 gcgcggtggc tgcgctgggt gagcgcgaag tcgccgacgc gcccttgccg caattgctgg      300
35 tgcgcgatac ccgtgcggcc ctggggcgac tgggcgcgct gaaccggcgc aagttcaccg      360
36 gcccgctggc ggccatgacg ggctccagcg gcaagaccgc ggtcaaggag atgctcgcca      420
37 gcatcctgcg taccagggcc ggcgatgccg agtcggtgct ggctaccggt ggcaatctga      480
38 acaacgacct cggcgtagcg ctgaccctgc tgcaactggc gccgcagcac cgtagcgtag      540
39 tgatcgaact gggcgccctc cgcacgcggc agatcgccca caccgctcag ctgaccgcgc      600
40 cgcacgtggc gatcatcacc aatgccggaa ccgcccatgt cggcgagttc ggccgaccgg      660
41 agaagatcgt cgaggcgaag ggcgagatac tcgaagggct ggccgcccgc ggcaccgccg      720
42 tactgaacct ggacgacaag gccttcgaca cctggaaggc ccgtgccagc ggccgtccgt      780
43 tgctgacttt ctccctcgac cggcccaggc ccgatttccg cgccgcccgc ctgcagcgcg      840
44 atgcgcgcgg ctgcatgggc ttcaggctgc agggcgtagc ggggtgaagc cagggtccagc      900
45 tcaacctgct ggggcggcac aatgtcgcca atgccctggc tgcggccgct gccgcccagt      960
46 cactgggcgt gccgctggat gggatcgtcg ccgggctgca ggcgctgcag ccggtcaagg      1020
47 gccgcgcggt agcgcaactg accgccagcg ggctgcgtgt gatagacgac agctacaacg      1080
48 ccaaccccgc gtcaatgctg gcggcgattg atatactgag cggcttttcc gggcgccacc      1140
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50 tgggcgccta cgccgctggc aaggtgtccg cgctctatgc ggtcggaccg ctgatggccc      1260
51 acgccgtaca ggcgttcggc gccacgggccc ggcacttcgc cgaccaggcc agcctgatcg      1320
52 gggcgctggc caccgaacaa ccgacaacca ccattttgat caagggttcc cgcagtgcgg      1380
53 cgatggacaa agtcgtcgcg gcgctgtgcg gttcctccga ggagagtcac taatgctcct      1440
54 gctgctggc
56 <210> SEQ ID NO: 2

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57 <211> LENGTH: 458

58 <212> TYPE: PRT

59 <213> ORGANISM: Pseudomonas aeruginosa

61 <400> SEQUENCE: 2

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62 Met Leu Glu Pro Leu Arg Leu Ser Gln Leu Thr Val Ala Leu Asp Ala
63 1 5 10 15
64 Arg Leu Ile Gly Glu Asp Ala Val Phe Ser Ala Val Ser Thr Asp Ser
65 20 25 30
66 Arg Ala Ile Gly Pro Gly Gln Leu Phe Ile Ala Leu Ser Gly Pro Arg
67 35 40 45
68 Phe Asp Gly His Asp Tyr Leu Ala Glu Val Ala Ala Lys Gly Ala Val
69 50 55 60
70 Ala Ala Leu Val Glu Arg Glu Val Ala Asp Ala Pro Leu Pro Gln Leu
71 65 70 75 80
72 Leu Val Arg Asp Thr Arg Ala Ala Leu Gly Arg Leu Gly Ala Leu Asn
73 85 90 95
74 Arg Arg Lys Phe Thr Gly Pro Leu Ala Ala Met Thr Gly Ser Ser Gly
75 100 105 110
76 Lys Thr Ala Val Lys Glu Met Leu Ala Ser Ile Leu Arg Thr Gln Ala
77 115 120 125
78 Gly Asp Ala Glu Ser Val Leu Ala Thr Arg Gly Asn Leu Asn Asn Asp
79 130 135 140
80 Leu Gly Val Pro Leu Thr Leu Leu Gln Leu Ala Pro Gln His Arg Ser
81 145 150 155 160
82 Ala Val Ile Glu Leu Gly Ala Ser Arg Ile Gly Glu Ile Ala Tyr Thr
83 165 170 175
84 Val Glu Leu Thr Arg Pro His Val Ala Ile Ile Thr Asn Ala Gly Thr
85 180 185 190
86 Ala His Val Gly Glu Phe Gly Gly Pro Glu Lys Ile Val Glu Ala Lys
87 195 200 205
88 Gly Glu Ile Leu Glu Gly Leu Ala Ala Asp Gly Thr Ala Val Leu Asn
89 210 215 220
90 Leu Asp Asp Lys Ala Phe Asp Thr Trp Lys Ala Arg Ala Ser Gly Arg
91 225 230 235 240
92 Pro Leu Leu Thr Phe Ser Leu Asp Arg Pro Gln Ala Asp Phe Arg Ala
93 245 250 255
94 Ala Asp Leu Gln Arg Asp Ala Arg Gly Cys Met Gly Phe Arg Leu Gln
95 260 265 270
96 Gly Val Ala Gly Glu Ala Gln Val Gln Leu Asn Leu Leu Gly Arg His
97 275 280 285
98 Asn Val Ala Asn Ala Leu Ala Ala Ala Ala Ala His Ala Leu Gly
99 290 295 300
100 Val Pro Leu Asp Gly Ile Val Ala Gly Leu Gln Ala Leu Gln Pro Val
101 305 310 315 320
102 Lys Gly Arg Ala Val Ala Gln Leu Thr Ala Ser Gly Leu Arg Val Ile
103 325 330 335
104 Asp Asp Ser Tyr Asn Ala Asn Pro Ala Ser Met Leu Ala Ala Ile Asp
105 340 345 350
106 Ile Leu Ser Gly Phe Ser Gly Arg Thr Val Leu Val Leu Gly Asp Met

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107          355          360          365
108 Gly Glu Leu Gly Ser Trp Ala Glu Gln Ala His Arg Glu Val Gly Ala
109          370          375          380
110 Tyr Ala Ala Gly Lys Val Ser Ala Leu Tyr Ala Val Gly Pro Leu Met
111 385          390          395          400
112 Ala His Ala Val Gln Ala Phe Gly Ala Thr Gly Arg His Phe Ala Asp
113          405          410          415
114 Gln Ala Ser Leu Ile Gly Ala Leu Ala Thr Glu Gln Pro Thr Thr Thr
115          420          425          430
116 Ile Leu Ile Lys Gly Ser Arg Ser Ala Ala Met Asp Lys Val Val Ala
117          435          440          445
118 Ala Leu Cys Gly Ser Ser Glu Glu Ser His
119          450          455
122 <210> SEQ ID NO: 3
123 <211> LENGTH: 27
124 <212> TYPE: DNA
125 <213> ORGANISM: Artificial Sequence
127 <220> FEATURE:
128 <223> OTHER INFORMATION: PCR Primer
130 <400> SEQUENCE: 3
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133 <210> SEQ ID NO: 4
134 <211> LENGTH: 27
135 <212> TYPE: DNA
136 <213> ORGANISM: Artificial Sequence
138 <220> FEATURE:
139 <223> OTHER INFORMATION: PCR Primer
141 <400> SEQUENCE: 4
142 ttggatcctt agtgactctc ctcgag

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VERIFICATION SUMMARY

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L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date